



TITLE:

表紙・目次

AUTHOR(S):

CITATION:

表紙・目次. 数理解析研究所講究録 2005, 1415

ISSUE DATE:

2005-02

URL:

<http://hdl.handle.net/2433/26239>

RIGHT:

数理解析研究所講究録 1415

非線形解析学と凸解析学の研究

京都大学数理解析研究所

2005年2月

Official Program of Annual International Workshop on Nonlinear Analysis and Convex Analysis

KYOTO UNIVERSITY

Oiwake-chou Kita-Shirakawa, Sakyou-ku, Kyoto-shi

This Workshop is officially approved by Kyoto University and financially supported by Research Institute for Mathematical Sciences attached to Kyoto University.

Directed by Wataru Takahashi(Tokyo Institute of Technology)
and organized by Shigeo Akashi(Tokyo University of Science)

Date: The workshop begins at 9:00 on the 6th of September and ends at 16:45 on the 8th in 2004.

Place: This workshop is held at Room 420 till the end of the morning session on the 8th,
and it is held at Room 115 from the begining of the afternoon session on the 8th.

Please refer to www.kurims.kyoto-u.ac.jp/kenkyubu/map/e-map.html.

September 6(Monday)

- | | |
|-------------|---|
| 9:00~9:40 | Hang-Chin Lai (Chung Yuan Christian University)
Mixed Type Duality on a Minimax Fractional Programming with Generalized Convex Set Functions |
| 9:40~10:10 | Wataru Takahashi (Tokyo Institute of Technology)
Weak and Strong Convergence Theorems for Nonlinear Operators and Applications |
| 10:10~10:40 | Akira Shimizu, Shogo Nishizawa and Tamaki Tanaka (Niigata University)
On Nonlinear Scalarization Methods in Set-Valued Optimization |
| 10:40~10:55 | Tea Break |
| 10:55~11:35 | Sen-Yen Shaw (Lunghwa University of Science and Technology)
Convergence of Ergodic Nets and Approximate Solutions of Linear Functional Equations |
| 11:35~12:05 | Koichiro Naito (Kumamoto University)
Recurrent Dimensions of Discrete Dynamical Systems |

Lunch Time

- | | |
|-------------|---|
| 13:20~13:50 | Juei-Ling Ho (Tainan Woman's College of Arts and Technology)
Global Asymptotic Stability Problem in Neural Nets |
| 13:50~14:20 | Jun Kawabe (Shinshu University)
A Type of Prokhorov-LeCam's Compactness Criterion for Riesz Space-Valued Measures |
| 14:20~14:50 | Yasutaka Yamada (Kitakyushu College of Technology), Yasuji Takahashi (Okayama Prefectural University) and Mikio Kato (Kyushu Institute of Technology)
On Some Inequalities Related to p -Uniform Smoothness and q -Uniform Convexity |
| 14:50~15:05 | Tea Break |
| 15:05~15:45 | Soon-Yi Wu (National Cheng Kung University)
Semi-infinite Convex Programming Problems |
| 15:45~16:15 | Toshihiko Nishishiraho (University of the Ryukyus)
Approximation by Equi-Uniform Summation Processes of Integral Operators in Banach Spaces |
| 16:15~16:45 | Saburou Saitoh (Gunma University)
Theory of Nonlinear Transforms and Reproducing Kernels |

September 7th(Tuesday)

9:00~9:40	Mau-Hsiang Shih (National Taiwan Normal University) Combinatorial Analogue of the Jacobian Problem in Automata Networks
9:40~10:10	Hidefumi Kawasaki (Kyushu University) A Cooperative Game Induced from the Conjugate Point
10:10~10:40	Ken-ichi Mitani and Kichi-Suke Saito (Niigata University) On ℓ_ψ -Spaces
10:40~10:55	Tea Break
10:55~11:35	Ngai-Ching Wong (National Sun Yat-sen University) A Converse of the Strong Separation Theorem –A Supplement to James' Theorem
11:35~12:05	Sachiko Atsushiba (Shibaura Institute of Technology) On Convergence of Iterative Sequences for Nonexpansive Mappings
Lunch Time	
13:20~13:50	Shyh-Nan Lee (Chung-Yuan Christian University) Combinatorial Stokes' Theorem with Balanced Structure
13:50~14:20	Daishi Kuroiwa (Shimane University) Properly Efficient Points in Set-Valued Analysis
14:20~14:50	Takayuki Tamura (Chiba University), Mikio Kato (Kyushu Institute of technology) and Kichi-Suke Saito (Niigata University) Uniform non ℓ_1^n -ness of ψ -direct sums of Banach spaces
14:50~15:05	Tea Break
15:05~15:45	Jen-Chih Yao (National Sun Yat-sen University) Modified Combined Relaxation Methods for Equilibrium Problems
15:45~16:15	Seiji Saito (Osaka University) On Schauder's Fixed Point Theorem concerning Complete Metric Space of Fuzzy Numbers
16:15~16:45	Tetsuzo Tanino (Osaka University) Convexity and Related Properties in Coalitional Games with Restrictions

September 8th(Wednesday)

9:00~9:40	Simeon Reich (The Technion - Israel Institute of Technology) Hyperbolic Monotonicity in the Hilbert Ball
9:40~10:10	Sin-Ei Takahashi and Takeshi Miura (Yamagata University) Reflection on Metricpoid Spaces and Mazur-Ulam's Theorem
10:10~10:40	Yasunori Kimura (Tokyo Institute of Technology) Convergence of Resolvents for a Sequence Maximal Monotone Operators
10:40~10:55	Tea Break
10:55~11:35	Lai-Jiu Lin (National Changhua University of Education) System of Generalized Vector Quasi-Equilibrium Problems with Applications to Fixed Point Theorems for a Family of Nonexpansive Multivalued Mappings
11:35~12:05	Tomonari Suzuki (Kyushu Institute of Technology) Caristi's Fixed Point theorem and Its Generalizations
Lunch Time	
13:20~13:50	Hirobumi Kiuchi (Takushoku University) Strong Convergence Theorems of Ishikawa Iterations with Errors for Nonexpansive Mappings
13:50~14:20	Yutaka Kimura, Keisuke Matsuyama, Mitsuhiro Hoshino, Hiroto Kawashima and Yumio Yato (Akita Prefectural University) An ε -Saddle Point of the Fractional Game
14:20~14:50	Masamichi Kon (Hirosaki University) On Fuzzy Location Problems Using Triangular Norm: Part I
14:50~15:05	Tea Break
15:05~15:45	Masayo Fujimura (National Defense Academy) Complex Dynamical Systems of the Quartic Polynomials

- 15:45~16:15 Mitsuhiro Hoshino (Akita Prefectural University)
Stationary States in Some Self-Organization
- 16:15~16:45 Shigeo Akashi and Masahiro Yamada (Tokyo University of Science)
A Relation between Hilbert's 13th Problem
and the Homeomorphism Problem of the Family of Analytic Function Spaces

非線形解析学と凸解析学の研究
Nonlinear Analysis and Convex Analysis
研究集会報告集

2004年9月6日～9月8日
研究代表者 明石 重男 (Shigeo Akashi)

目 次

1. Mixed Type Duality in Mathematical Programming Involving generalized Convex set Functions -----	1
Chung Yuan Christian Univ. Hang - Chin Lai	
National Oversea Chinese Student Univ. Jun Chuan Liu	
2. Weak and Strong Convergence Theorems for Nonexpansive Semigroups in Banach Spaces -----	11
東工大・情報理工学 高橋 渉(Wataru Takahashi)	
3. On nonlinear scalarization methods in set-valued optimization -----	20
新潟大・自然科学 清水 晃(Akira Shimizu)	
" 西澤 正悟(Shogo Nishizawa)	
" 田中 環(Tamaki Tanaka)	
4. Convergence of Ergodic Nets and Approximate Solutions of Linear Functional Equations -----	29
Lunghwa Univ. of Science and Technology Sen - Yen Shaw	
5. RECURRENT DIMENSIONS AND DIOPHANTINE CONDITIONS OF DISCRETE DYNAMICAL SYSTEMS GIVEN BY CIRCLE MAPPINGS -----	38
熊本大・工 内藤 幸一郎(Koichiro Naito)	
6. Characterization of the Global Convergence for the XOR Boolean Networks -----	47
Tainan Woman's College of Arts and Tech. Juei-Ling Ho	
7. RIESZ 空間値測度の BOREL 直積 -----	56
信州大・工 河邊 淳(Jun Kawabe)	
" 天野 雄介(Yusuke Amano)	
8. On some inequalities related with p -uniform smoothness and q -uniform convexity -----	64
北九州工業高専 山田 康隆(Yasutaka Yamada)	
九工大・工 加藤 幹雄(Mikio Kato)	
岡山県立大・情報工 高橋 泰嗣(Yasuji Takahashi)	
9. Nonlinear mappings and the theory of reproducing kernels -----	70
群馬大・工 斎藤 三郎(Saburou Saitoh)	
10. Jacobian Problem and Genetic Networks -----	79
National Taiwan Normal Univ. Mau-Hsiang Shih	
11. 共役点から導かれる協力ゲーム A conjugate-set game induced from the conjugate point -----	83
九大・数理学 川崎 英文(Hidefumi Kawasaki)	

1 2.	ℓ_ϕ 空間について -----	90
	新潟大・自然科学	三谷 健一(Ken-ichi Mitani)
	新潟大・理	斎藤 吉助(Kichi-Suke Saito)
1 3.	ON NONLINEAR ERGODIC THEOREMS FOR NONEXPANSIVE SEMIGROUPS IN BANACH SPACES -----	96
	芝浦工大・工	厚芝 幸子(Sachiko Atsushiba)
1 4.	PROPERLY EFFICIENT POINTS IN SET-VALUED ANALYSIS -----	105
	島根大・総合理工	黒岩 大史(Daishi Kuroiwa)
1 5.	完備距離空間をなすファジィ数の集合に関するシャウダーの不動点定理について Schauder's Fixed Point Theorems Concerning Complete Metric Spaces of Fuzzy Numbers -----	110
	阪大・情報科学	斎藤 誠慈(Seiji Saito)
1 6.	制限のある提携形ゲームにおける凸性等の性質 -----	118
	阪大・工学	谷野 哲三(Tetsuzo Tanino)
1 7.	CONVERGENCE OF DYNAMICAL SYSTEMS WITH CONVEX LYAPUNOV FUNCTIONS -----	127
	The Technion - Israel Inst. of Tech.	Simeon Reich
	〃	Alexander J. Zaslavski
1 8.	垂距離空間上の鏡映と Mazur-Ulam theorem -----	132
	山形大・工	高橋 眞映(Sin-Ei Takahasi)
	〃	三浦 毅(Takeshi Miura)
1 9.	極大単調作用素列におけるリゾルベントの強収束に対する 同値条件について -----	139
	東工大・情報理工学	木村 泰紀(Yasunori Kimura)
2 0.	CARISTI の不動点定理の拡張定理の別証明 -----	146
	九工大・工	鈴木 智成(Tomonari Suzuki)
2 1.	非拡大写像に対するエラー項を持つ Ishikawa イタレーションの 強収束定理 -----	152
	拓殖大・工	木内 博文(Hirobumi Kiuchi)
2 2.	An ε -Saddle Point of a Fractional Game -----	160
	秋田県立大・システム科学技術	木村 寛(Yutaka Kimura)
	〃	松山 敬左(Keisuke Matsuyama)
	〃	星野 満博(Mitsuhiro Hoshino)
	〃	川島 洋人(Hiroto Kawashima)
	〃	矢戸 弓雄(Yumio Yato)
2 3.	三角型ノルムを用いたファジィ配置問題について: Part I -----	168
	弘前大・理工	金 正道(Masamichi Kon)

2 4 . Complex dynamical systems of the quartic polynomials -----	176
防衛大学校	藤村 雅代(Masayo Fujimura)
2 5 . Stationary states in some self-organization	
(自己組織化における定常状態について) -----	185
秋田県立大・システム科学技術	星野 満博(Mitsuhiro Hoshino)
〃	木村 寛(Yutaka Kimura)
2 6 . A relation between multidimensional data compression and Hilbert's 13th problem ----	194
東京理科大・理工	山田 真大(Masahiro Yamada)
〃	明石 重男(Shigeo Akashi)